AMENDMENTS TO THE CLAIMS

- (Original) A method of growing a p-type nitride semiconductor material by molecular beam epitaxy, the method comprising supplying bis(cyclopentadienyl)magnesium (Cp₂Mq) during the growth process.
- (Previously Presented) A method as claimed in claim 1, wherein the nitride semiconductor material is p-type (Ga,Al)N.
- (Previously Presented) A method as claimed in claim 1, comprising supplying ammonia gas during the growth process.
- (Previously Presented) A method as claimed in claim 1, comprising supplying ammonia gas, gallium and Cp₂Mg to a growth chamber, thereby to grow a layer of p-type GaN.
- (Previously Presented) A method as claimed in claim 1, comprising supplying ammonia gas, aluminum, gallium and Cp₂Mg to a growth chamber, thereby to grow a layer of p-type AlGaN.
- (Previously Presented) A method as claimed in 1, comprising changing the supply rate of Cp₂Mg during the growth of the nitride semiconductor material.
- (Cancelled)
- (Previously Presented) A method as claimed in claim 1, wherein the growth process is carried out at a temperature of at least 800°C.

- 9. (Previously Presented) A method as claimed in claim 1, wherein the growth process is carried out at a temperature of at least 850°C.
- 10. (Previously Presented) A method as claimed in claim 1, wherein the growth process is carried out at a temperature of at least 920°C.
- 11. (Previously Presented) A method as claimed in claim 1, wherein the growth process is carried out at a temperature of at least 950°C.
- 12. (Previously Presented) A method as claimed in claim 1, wherein the growth process is carried out at a temperature of 960°C or below.
- (Previously Presented) A method as claimed in claim 1, comprising supplying
 Cp₂Mg at a beam equivalent pressure of at least 1 x 10⁹ mbar.
- 14. (Previously Presented) A method as claimed in claim 1, comprising supplying Cp_2Mg at a beam equivalent pressure of at least 3×10^9 mbar.
- 15. (Previously Presented) A method as claimed in claim 1, comprising supplying Cp₂Mg at a beam equivalent pressure of 1 x 10⁻⁷ mbar or below.
- 16. (Previously Presented) A method as claimed in claim 1, comprising supplying Cp₂Mg at a beam equivalent pressure of 1.5 x 10⁻⁸ mbar or below.
- 17. (Previously Presented) A method as claimed in claim 4, comprising supplying elemental gallium at a beam equivalent pressure of at least 1×10^8 mbar.
- 18. (Previously Presented) A method as claimed in claim 4, comprising supplying elemental gallium at a beam equivalent pressure of 1×10^{-5} mbar or below.

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19. (Previously Presented) A method as claimed in claim 5, comprising supplying elemental gallium and elemental aluminium at an overall beam equivalent pressure of at least 1 x 10⁻⁸ mbar.

20. (Previously Presented) A method as claimed in claim 5, comprising supplying elemental gallium and elemental aluminium at an overall beam equivalent pressure of 1 x 10⁻⁵mbar or below.

- 21. (Canceled)
- 22. (Canceled)
- 23. (Canceled)